

Comparisons of Job Characteristics

Focus Occupation: [Computer-Controlled Machine Tool Operators, Metal and Plastic \(51-4011\)](#)

Associated Occupation: [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: [Computer-Controlled Machine Tool Operators, Metal and Plastic \(51-4011\)](#)

Associated Occupation: [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Production and Processing	6.0	8.6	10.9	> Current knowledge level is likely sufficient
Chemistry	4.8	7.3	3.9	<< Extensive education and/or training may be required
Physics	4.3	6.1	4.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: [Computer-Controlled Machine Tool Operators, Metal and Plastic \(51-4011\)](#)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	12.0	11.1	0 Current skill level may be sufficient
Operation Monitoring	6.6	11.8	13.2	> Skill level is likely sufficient
Equipment Maintenance	3.5	8.9	8.2	0 Current skill level may be sufficient
Repairing	3.4	8.1	7.6	0 Current skill level may be sufficient
Troubleshooting	4.5	7.3	9.2	> Skill level is likely sufficient
Equipment Selection	3.3	6.7	8.0	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reaction Time	4.8	11.6	13.2	>	Current ability level is likely sufficient
Selective Attention	8.7	11.4	11.6	0	Current ability level may be sufficient
Multilimb Coordination	6.0	10.8	10.1	0	Current ability level may be sufficient
Static Strength	5.0	10.8	9.1	<	Some improvement in abilities may be required
Rate Control	3.8	9.5	10.1	0	Current ability level may be sufficient
Stamina	4.0	8.9	5.9	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	8.8	8.8	0	Current ability level may be sufficient
Speed of Limb Movement	3.2	7.1	6.8	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

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Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Clean equipment or machinery	20
Examine products or work to verify conformance to specifications	15
Install equipment or attachments on machinery or related structures	48
Load or unload material or workpiece into machinery	34
Load, unload, or stack containers, materials, or products	37
Maintain or repair industrial or related equipment/machinery	39
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Operate metal or plastic fabricating equipment/machinery	54
Perform safety inspections in manufacturing or industrial setting	33
Read work order, instructions, formulas, or processing charts	9
Set up production equipment or machinery	51
Understand technical operating, service or repair manuals	6
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.